

The Uprh

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FIVE CENTS

Loan programs extended

Nixon's plans for FY '74 budget undercut by Congress

By Jonathan L. Weker

MIT will not be losing \$800,000 in federal money for student financial aid during the upcoming year, as had been previously anticipated, due to a bill signed Saturday by President Nixon.

The bill signed by Nixon was one sent to him by Congress after the Hill had rejected his proposal to transfer most federal student aid money into a new program, a move that would have cost MIT \$800,000 for the 1973-74 school year. According to the MIT student aid office, MIT will be receiving virtually the same amount of money next year as it did this year, about \$1.71 million, from the federal government.

The bill signed by the President does not differ in the total amount of money budgeted for student financial aid purposes from his earlier proposal. However, the guidelines for distribution of the money are significantly different. The enacted

legislation has "preserved the three existing aid programs."

"This is a significant victory for the traditional loan system," stated Leonard Gallagher, Associate Director of Student Financial aid. "We've been making noise about what would have happened if it (the bill) had not been signed."

The newly enacted bill will provide \$210.3 million in educational opportunity grants, scholarship money which is awarded solely on the basis of financial need. "Very few students at MIT are eligible for this program," Gallagher commented, "so regardless of the size of the national program, MIT stands to gain very little from this."

The recently-signed legislation will also provide \$270.2 million in federal money for the work-study program, and \$269.4 million for low-interest federal loans to students. These are the two programs which provide the bulk of MIT's federally-funded financial aid to students, and would have been significantly

reduced had President Nixon's original proposal been passed. According to Gallagher, the educational opportunity grants account for only \$310,000 of MIT's federally-financed student aid, with the remaining \$1.38 million being provided by the other two programs.

An additional \$122.1 million has been appropriated for the Basic Educational Opportunities Program, a newly created plan which would have received the bulk of the federal money, along with the scholarship program, under Nixon's originally proposed plan. This program, also based on need, differs from the scholarship system in that it is administered by the federal government, not the individual school; and that the money would be available for students of all post-high school educational institutions, not just 4-year schools. Thus, the program would provide even less aid than the scholarship program to MIT students, according to Gallagher.



The MIT Research Reactor containment building, including the cooling towers at far left and the truck airlock at the center.

Photo by Storm Kauffman

AEC approves plan for reactor redesign

By Storm Kauffman

Plans for the proposed renovation of the MIT Research Reactor (MITR) have been approved by the Atomic Energy Commission and the MIT administration. The program now enters the stage where orders for materials are placed with contractors.

The AEC review process for the MITR, including the 30-day public notice period, was completed as of April 9. MIT has subsequently given its go-ahead for the disbursement of funds allocated for the project.

Current schedules call for the cessation of operations of the present reactor when equipment and materiel are on hand, about the beginning of February 1974. With the entire reactor staff participating in the effort, it is expected that the new reactor core (MITR II) will be activated about July.

Planning for the modification of the reactor core has been in progress for more than four years and has since been the subject of a number of degree theses. By the end of 1970 the provisional design of the new core, including a thorough safety analysis, had been completed. Negotiations with the AEC over modernization of electronic systems and the investigation of seismic effects continued through 1971 but were satisfactorily settled.

Unlike the public utility reactors familiar to most people, the MITR is not used to generate power. The radiation conditions produced by the reactor are used to conduct a wide variety of experiments and provide irradiation services for licensed groups and institutions in the Boston area.

The major part of the renovation will deal with the core. As the MITR's primary purpose is to produce radiation conditions for experimenters, the redesign is aimed at increasing fluxes available at the end of the beam ports (beam facilities that penetrate the shielding to about the aluminum core tank). To make the central flux available, the new core will be more compact than the present four-foot diameter core.

Additional alterations include the use of light water instead of the present heavy water (deuterium instead of hydrogen) as a coolant.

FAC short of advisor goal

By James Moody

The Freshman Advisory Council is still looking for more advisors and associate advisors. Their annual recruitment program is not complete, with only 131 freshman advisors (about one-half the number needed) signed up for next year.

The goal of the recruitment program, according to Peter Buttner, Executive Officer of the FAC, is "to be able to assign to each advisor no more than his/her preferred number of advisees." This year, advisors requested anywhere from one to eight freshmen. There are 225 advisors now, and according to Buttner, this is the goal for next year.

In the past, about 70% of the advisors have elected to have associate advisors working with them. These are students who show a willingness to advise and

counsel freshmen by assisting the regular advisors.

Most advisors pick their own associates; but, before the FAC discovered this, they appealed for associates through ads, and letters to all undergraduates. This brought a phenomenal response, with over 300 students expressing interest in becoming associates. Buttner was "overwhelmed, but gratified" that so many students wanted to be part of the formal advisory system. Unfortunately, most of these potential associates were disappointed, since very few advisors requested associates from this general pool.

This year, Buttner estimates a need for a modest pool, of about 20 to 30. Anyone interested should stop by the FAC, 7-103, but Buttner added, "we just don't want people to be disappointed."

However, Buttner pointed out, if you want to ensure your involvement in the program, by far the best thing for potential associates to do is to go out and recruit advisors on their own.

Because of the overwhelming interest in being part of the advisory system expressed last year, the FAC is interested in seeing the growth of a new and similar residential-based system. House governments could organize interested upperclassmen into advisory groups within each living unit, to help pass on the kind of sage advice that one learns only by experience.

This system, according to the FAC, would make help more readily available to freshmen, as well as strengthen the interpersonal contacts that must form the basis of any really effective advisory system.

Science and man's future

By Charlotte Cooper

Huston Smith, professor of philosophy at MIT spoke Wednesday, April 25, on the "Human Import of Science" as part of the Images of Man Series of the Technology and Culture Seminars. This was Smith's last major lecture at MIT, as he will be taking a professorship at Syracuse University next fall.

Smith stated that for each man there are "three spheres of existence": the public, the interpersonal and the private which is the seat of our religious experience, "where we are either at peace with or alienated from ourselves."

The human population, said Smith, can be divided into four personality types: the sensate, or hedonists; the producers, whose "imaginings are on the plane of economic stability"; the organizers-administrators, who "orchestrate human potential"; and the Brahmins, or contemplatives.

Describing himself as the "religionist making his case to the scientific community," Smith said he believes that science's impact on man's well-being has been "debilitating." In the social sphere, said Smith, the worst problem science has created has been "the destruction of the primary community. Increased mobility has all but destroyed the primary groups in which people used to live."

This breakdown in community life and identity has been, Smith feels, largely responsible for man's feelings of alienation and isolation so much talked about in the last decade. Commenting on science's effect on humankind's spiritual well-being, Smith stated, "Values seem to have no status at all in the objective universe."

Man has jumped to the unfortunate conclusion that scientific discoveries have uncovered all of nature's secrets although "the scientific vision is incomplete. It is not enough to sustain us," but has nevertheless "unduly pre-

empted the intellectual field in our time."

With his private world devoid of values and meaning, and his interpersonal life denied the relationships he would develop in a primary community, man's future as a religious, and even human, being would seem bleak, but Smith is not pessimistic. On ecological issues he claims to be "not morose," adding that he is, however, no expert on the prospects for the human race's physical well-being.

As for man's spiritual expectations, scientists are with increasing frequency encountering evidence that there is more to the universe than they had previously perceived. "It's turning out," Smith contends, "that there are dimensions of nature that are inconsistent, that we can't describe in ordinary, unparadoxical language. Nature is beginning to seem anti-intuitive."

In their most advanced research, physicists inevitably encounter a "barrier that eludes their instruments," since its components refuse to be measured. The presence of this "more" in the universe, Smith feels, demands a re-examination of modern concepts of man and his world, and necessitates the creation of an ideology which will find no contradiction in the co-existence of the scientific and the spiritual.

Following the lecture, Baruch Brody, Assistant Professor of Philosophy at MIT, and Thomas Professor of Divinity Dr. Harvey Cox from Harvard voiced their opinions concerning Smith's speech.

Brody stated that he felt it unnecessary to place great importance on the primary community, which he feels limits rather than supports individuals. If science has fragmented man's identity, Brody claimed, it has also challenged man's concept of his world and prompted him to more extensive exploration of the varying components of his self.

Safety precautions studied

By Wendy Peikes

Due to a series of recent incidents occurring in and around MIT — including a fatality resulting from an automobile accident, an electrocution in a physics lab, and two injuries caused by students working with dangerous chemicals — safety at MIT has become a major issue.

One night last December, Richard Hauseman '74 and Helene D. Granache of Simmons College, attempted to cross Massachusetts Avenue against the light. According to Captain Olivieri of the Campus Patrol, they were struck by an automobile which threw them into the air and then into the path of opposing traffic. Granache was thrown under a car and died as a consequence, while Hauseman survived.

This accident prompted an investigation by the MIT Planning Office in conjunction with the Cambridge Traffic Division of the advisability of revising the sequence of the traffic lights on Mass. Ave. as a possible aid to pedestrian safety. The long wait for the light to change, says Olivieri, makes some impatient pedestrians cross against it. According to John Fresina of the MIT Safety Office, there are two different sequences within a cycle of the traffic lights, each with a different length of time between changes.

The result of the study was a revision of the timing sequence in favor of the pedestrian. The Planning Office expects that the present cycle, by allowing more time for crossing Mass. Ave., will reduce the possibility of accidents.

For a few days following the accident, a Cambridge policeman was hired to direct traffic near the entrance to Building 7. His purpose there, says Fresina, was to "re-educate" the people using the crosswalk as to the type of sequence the traffic lights were following.

Robert Simha of the MIT Planning Office asked the Cambridge Traffic Division to make physical changes, some of which were promised in April. The Planning Office hopes to try out some new graphic devices, such as a meter attached to a light pole, which would inform pedestrians of the number of seconds remaining until the next change of the light.

Another incident which was the source of much concern was the lab explosion in which Flora Chow '73, was injured. Fresina believes that she had formed some unstable peroxides, and, not getting a good enough vacuum, had twisted some joints on her flask. The peroxide was then detonated.

The Institute has always recommended that anyone performing lab work at off hours or in secluded areas with dangerous chemicals or equipment should not work alone. However, MIT has left it for the particular department involved to work out the details of enforcing this rule. Fortunately for Chow, there was another student nearby who heard the explosion. He ran into the lab where she was working, put out the fire and called the Campus Patrol. "The guy was fantastic," says Fresina.

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The chemistry department is presently reviewing their procedure for ascertaining that the rule about not working alone is followed.

There was another recent laboratory accident in room 6-235. According to Fresina, the experiment being done there generated a flammable vapor or gas, which escaped from the flask and onto an electric motor, causing the vapor or gas to ignite. The experimenter suffered facial second degree burns.

The recent electrocution of a student in a physics lab prompted an investigation by the US Department of Labor, in compliance with the Federal Occupational Safety and Health Act (OSHA). 1650 violations were reported, for the most part potentially hazardous situations, including gas cylinders not chained down, improperly guarded pulleys on vacuum pumps, stepladders with broken steps, bicycles chained to stairways, improper temporary wiring, exposed high voltage equipment, and cluttered hallways. MIT was fined a total of \$1175 for these violations.

According to Fresina, all but 150 to 180 of these have been corrected.

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SCHEDULE OF EVENTS

THURSDAY, MAY 3

5:00 Ernie Kovacs Film Festival--Rm. 10-250
8:00 Ernie Kovacs Film Festival--Sala de Puerto Rico

FRIDAY, MAY 4

12:30 Folk Dancing Club--Kresge Oval
3:00 Balloon Release (200 helium Balloons)--Kresge Oval
Faculty/administration--Student Softball Game--Softball field A
WTBS Remote from the Student Center Steps
Auto Club exhibit--Kresge parking loop
Big Screw Voting Booth--Front of S.C.
Unicycle Club--Next to S.C.
Fussball Tournament--West side of Student Center
Slip 'n' Slide--East side of Student Center
Bicycle Repair Clinic (Wheelmen)--Front of S.C.
APO Refreshments--Front of Kresge
TCA Silkscreen Booth--Front of S.C.
MITEA and ZPG--Front of S.C.
Ping-Pong--Kresge Lobby
Pot-Luck Coffeehouse--Next to Chapel
Tiddly-winks -- Kresge Lobby
3:00 Pie-eating Contest--Kresge Oval
4:00 Tech Squares--East side of S.C.
Model Rocket Society demonstration rocket launch --Kresge Oval
4:15-4:45 Kite-Flying Contest
4:20 Prof. Lamson's Jazz Trio--S.C. steps
5:00 Commons Picnic--Rear of Kresge
5:10 Logarhythms--Rear of Kresge
5:30 Musical Theater Guild--S.C. Steps
6:00 Dance Workshop--Kresge Oval
6:30 Parachute jump--Field A (stay clear!)
6:45 Festival Jazz Band--S.C. steps
7:15 Big Screw Presentation --S.C. steps
8:00 SHA-NA-NA BEER BLAST --Rockwell Cage

SATURDAY, MAY 5

Afternoon--FIJI ISLAND PARTY

FIJI
ISLAND
PARTY

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KALEIDOSCOPE

Kaleidoscope activities

Kaleidoscope is shooting for the spectacular this year. While the activities usually center around the Kresge-Student Center Plaza, a lot will be happening ABOVE the Plaza this Friday. Mean Joe Green, who flies WBZ's helicopter, will be here — in his 'copter — to let us know who wins the kite flying contest; he might even tell the rest of Boston about it as it's happening, over the air! Later on in the afternoon, there will be a demonstration parachute jump in which two sky-divers will leave their plane to land in the middle of Briggs Field. Also, the Model Rocket Society will launch one of their rockets from the Kresge Oval.

Meanwhile, on the ground, the afternoon will begin with a softball game between students and Institute officials — including "Sluggo" Wiesner, "Dick 'The Stick' Sorenson, "Strike-out" Simonides, and more.

Pot Luck Coffeehouse will be open — outdoors for the afternoon. The Auto Club will be showing off some of their cars on the Kresge parking loop. If motorized transportation isn't for you, you can learn to unicycle (compliments of the Unicycle Club), or learn all about bicycle repairs at a free bike clinic (thanks to the Wheelmen).

Refreshments will be served by A.P.O. in front of Kresge. If you bring a T-shirt or sweatshirt to the TCA booth, they will silkscreen the Institute Screw on it for you. And don't forget to cast your votes for the Big Screw — which will be presented to the winner at seven o'clock Friday evening!

In the Kresge Lobby, you could challenge the ping-pong

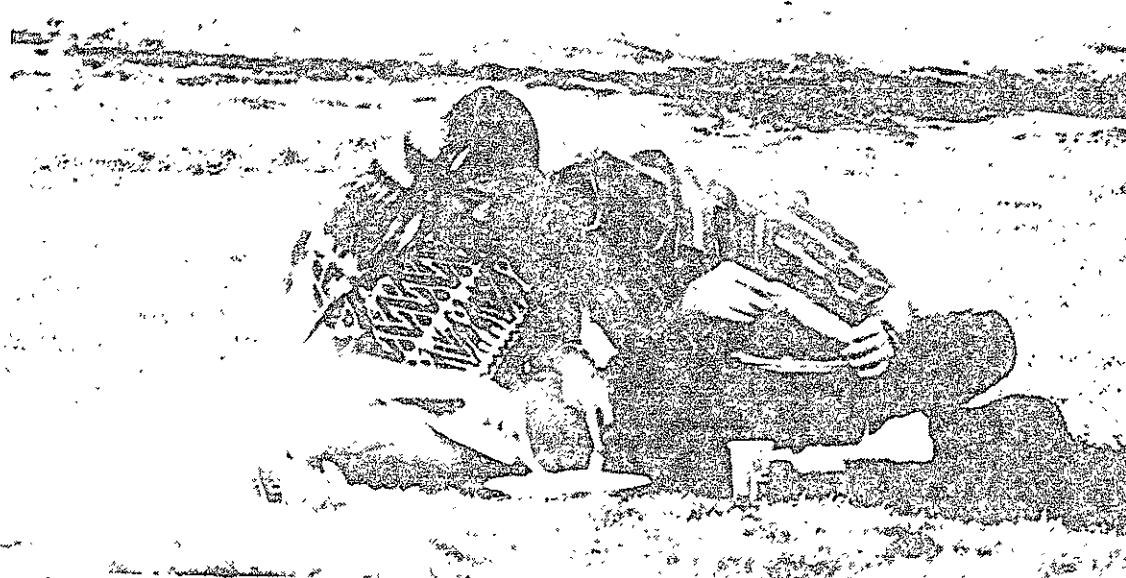
team to a game of singles or doubles — whichever you like — or learn how to play tiddlywinks from our world famous Tiddlywinks team. On the Mass. Ave. side of the Student Center, you can cool off and slip 'n' slide as much as you like as the "Slip 'n' Slide" returns to Kaleidoscope. Come in your shorts, get wet, take a running start, and glide across the twenty-five foot sheet of plastic!

MIT Ecology Action and Zero Population Growth will

cing, too. The Festival Jazz Band, the Logarhythms, Dance Workshop, Musical Theater Guild, Tech Squares, Folkdance Club, and Professor Lamson's Jazz Trio will all be there.

The Roast Beef Picnic will start at 5 pm and serve until 7 pm. This meal is free to all commons people (get your tickets where you eat) and \$2.75 for all others. Tickets can be bought anywhere commons is served.

And of course, at 8 pm in Rockwell Cage, grease back your



have displays where you could pick up some interesting information.

Do you like pies? Enter the Pie Eating Contest! Twenty people are seated in front of twenty pies — with their hands tied behind their backs. How fast can you finish? (Ever see how MESSY cherry and blueberry pies can be? Come and see!)

There will be music and dan-

hair, put on your straight-leg jeans, and drink all the beer you can while you dance to SHANA-NA! Tickets are available at the TCA Office on the fourth floor of the Student Center for \$2.50 with an MIT I.D. and \$3.00 with any college I.D.

Saturday afternoon, go to Fitchburg, Mass. to the Fiji Island Party. Go to the booth in the lobby of Building 10 to find out all about it and sign up.

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FIJI ISLAND PARTY

By Joe Fabitz

On Saturday, May 5, Fiji Island Party (FIP) returns to MIT. Every other year, the Phi Gamma Delta Fraternity sponsors the traditional event for the benefit of the Institute Community. In the opinion of some of the fraternity members, if you don't enjoy the evening, it's probably your fault.

FIP's (Fiji is the self-proclaimed nickname of the fraternity) are held at over 100 colleges and universities throughout the nation. The parties usually have between 100 and 1200 people attending, but no matter where they are held, the costume and atmosphere is remarkably similar.

At MIT FIP's have been held every other year for the last 20 years. Before that, FIP took the form of a "cowboy party" and records show that this event had its origins in the late 1930's. At one time, "Fiji Island" was the only Institute sponsored fraternity party, and was usually funded, at least in part, by MIT. Most Tech graduates will remember at least hearing about FIP. Those who attend these affairs seem never to forget them.

If you're attending this year's event, you might want to know how to dress. FIP is a costume party, and officially a couple is allowed one square yard of cloth from which two costumes are to be made. Grass skirts, bathing suits, and various improvisations are acceptable however. Accessories like spears and shark's tooth necklaces are also common. Above all, don't forget your coconut, especially if you're going to drink. Hollowed out, they make perfect leak-proof containers for the punch

or beer. Finally, you are hereby warned that the punch contains about 15% alcohol and that a coconut holds more than you think. Some Fiji islanders tend to hold less than they think, so emergency buckets will be provided.

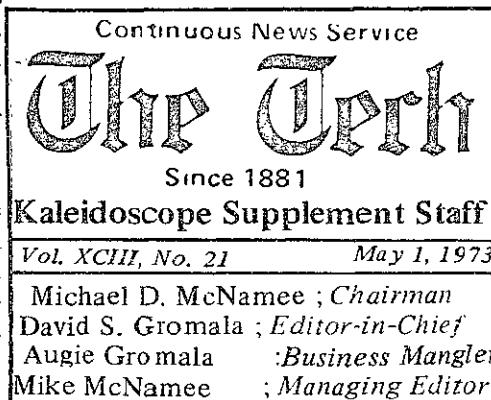
The party will be held at Saima park in Fitchburg, Massachusetts. Buses will be provided at a cost of \$2.00 per couple. If you're planning to drink, it is probably wisest to take a bus. To get into the party, you'll need a free ticket or an ID. Everything else is provided for you.

All tickets, directions, and information are available in the lobby of building 10, at the Fiji House at 28 the Fenway, Boston or by calling 247-8048. Everyone in the MIT community is invited.

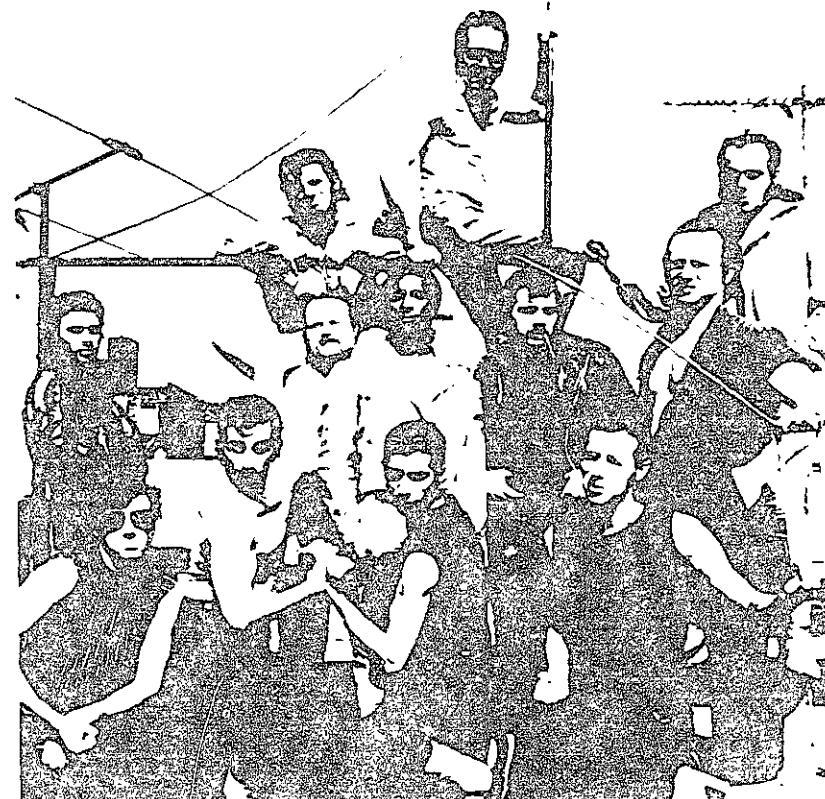


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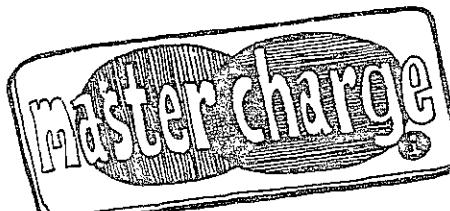
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Suicide suspected in death

By Norman D. Sandler

Raoul Lamp, a sophomore majoring in mathematics, was found on the sidewalk outside East Campus last Thursday, presumably after a fall from the building's roof, and died later at Massachusetts General Hospital from multiple fractures and internal injuries.

Lamp's death was an apparent suicide. His body was

discovered by another resident of Hayden hall at East Campus, Mark Sullivan '73. Sullivan notified the Campus Patrol at 11am, and they were on the scene within four minutes, according to a witness. Lamp was then transported to Mass General where he was placed on the danger list, and five hours later he succumbed to the injuries sustained in the fall.

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by Prof. Lynn Margulis, Boston University

EXPERIMENTS ON THE ORIGIN OF LIFE

by Prof. Carl Sagan, Cornell

LEAF INSECTS, BIRDS, AND HUMAN COLOR VISION

by Prof. Jerome Lettvin, MIT

Students who are curious about the topics above are invited to use an experimental system containing these interactive lectures, which were recorded specifically for individual listening. The lectures are unique in that they include a great many recorded answers to interesting questions. The answers extend and deepen the discussion, and can be quickly and conveniently accessed.

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Light crew wins Geiger Cup

Last Saturday morning, amid the floating human effluent of the Harlem River, the MIT lightweights outmuscled Cornell and Columbia to reassert themselves as a major contender to win the Eastern Sprints.

It had been a grueling week for the lightweights leading up to Saturday's race in the Bronx. After several close losses to Harvard the week before, the coaches were puzzled over how to make their boats go faster, especially varsity coach Jack Frailey. The varsity seat-raced on Monday, Tuesday, and Wednesday, and several changes were made.

Sophomore Bernie Brooks emerged from the JV to take the four seat in the varsity, and Gary Edens '75 also moved up, to the six seat. Jim Shretterer '75 was switched from six to debut at stroke, and veteran Pete Billings '73 moved to the three seat. The remaining men in the varsity, unchanged are: Tim Reiser '74 at bow, Mike Filosa '74 at two, Mike Scott '73 at five, Ralph Nauman '75 at seven, and John Kennedy '75 coxing.

On Thursday the new varsity raced a few 500 meter sprints against the freshmen and the new JV of: Chris Dippel '75 bow, Bob Puckett '74 two, John Sheetz '74 three, Bob Lambe '74 four, Henry Heck '75 five, Bob Minshall '74 six, Dan Greene '74 seven, Captain Andy Moehlenbrock '74 stroke, and Mitch Green '75, coxing.

The results were ambivalent; the boat felt stronger but the balance was shaky. No one knew what to expect at Columbia on Saturday. The JV had no concrete expectations either, although they were more confident since they are very likely the fastest JV boat in the EARC.

Saturday found the uncertain crew nervously roughing their oars and fixing their stretchers beneath threatening, grimy Manhattan skies at the Columbia boathouse. The second freshmen (Bob Anglemeir, bow; John

Smith, two; Reed Hodgin, three; Lenar Straujups, four; Shin Yoshida, five; Tom Stohlmeyer, six; Dave Rushton, seven; Mike Paluszak, stroke; and Dave Lee, cox) went on the water first to face Cornell.

In a few minutes word came to the dock from freshman coach Lauren Sompayrack that the race had been close all the way, but that MIT had sprinted to a length lead in the last 500 meters. The news eased some of the tension among the Tech crews.

A mixup in the scheduling put the varsity race before the junior varsity race, and as the new boat went up to the starting line, the 3rd V "Super-four" of Dick Michel '75, bow; Gabor Scakasc '76 two; Mike Perlmutter '74, three; and Joel Goodrich '75, stroke, rowed easily by the finish line, three lengths up on Cornell and five lengths up on Columbia. Goodrich flashed the varsity a huge smile during the race, and such overt confidence really got the varsity up.

The first freshmen went by in the next race. The crew of Mark Halpern, bow; Kim Rulon, two; John Wendell, three; Mike Neff, four; Bob Behrens, five; co-captain Randy Saunders, six; Mark Suchon, seven; Don Warren, stroke; and Bob Lepkowski, cox, were in a tight race for the first 500 meters, but they gradually began to out-pull Cornell and Columbia, and in the last 400 meters their sprint put them over a length ahead.

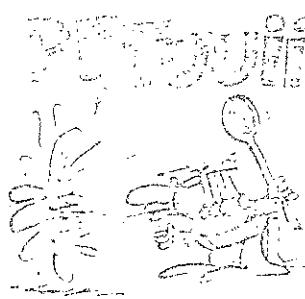
The varsity went next, getting off to a slow start. With 500 meters gone, they were up a few seats on Columbia and down a few to Cornell. Cornell was in the MIT lane, however, and blocking MIT's moves for the lead. At the 1000 meter mark, MIT took a big twenty and when Cornell did not move over for the passing boat, the starboard oars collided. The race went down to the finish in that order, with Cornell finishing two seconds ahead, and Columbia six

seconds behind. But then the race judge came up in the launch and announced that Cornell had been disqualified for being out of their lane. The varsity had won.

All that remained for a clean sweep of the day was a JV win over Cornell. That race was effectively decided in the first forty strokes, as MIT's JV pounded into an early lead and blew Cornell off the water by 27 seconds.

As the bus started the long trip back to Boston, one of the weary oarsmen noticed that "winning sure is better than losing."

This week it's Penn and Navy at Annapolis.



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WORKSHOP

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DATE
Monday, May 7th

TIME
4:00 PM

PLACE
Bush Room, 10-250

AGENDA
Advantages and Disadvantages of Work in Another Country
Survey of Opportunities
Deadlines

PANEL
Prof. Martin Abkowitz, Ocean Engineering, France
Ecole Supérieure de Mécanique, Univ. of Nantes,
Fulbright, October 1971-July 1972.

Prof. Hoyt Hottel, Chemical Engineering, Australia
Univ. of Newcastle, Fulbright, February-May 1972

Prof. Daniel Kleppner, Physics, England
Oxford University, Sloan Fellowship, January-July 1968.
Univ. of Paris, Spring, 1968.

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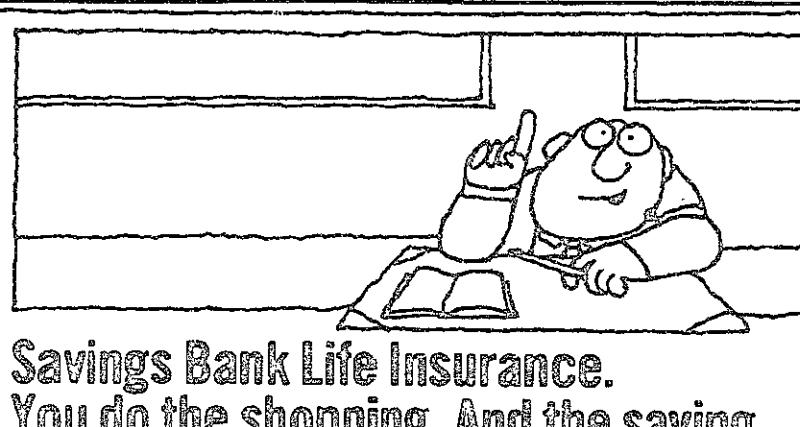
Maturing and the Educational Process

Professor Douglas H. Heath, Haverford College

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Tuesday, May 1

3:00 PM, Little Theatre-Kresge



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9:15 & Robert Altman's IMAGES
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